

CLAIMS

1. A false labeling preventing method in commodity distribution, comprising the steps of:

5 receiving from a supplier a buying form I of commodity information, which is incapable of being falsified;

preparing a shipping form O including all contents of the buying form and new commodity information and
10 incapable of being falsified based on the buying form I; and

attaching the shipping form to the secondarily processed commodity and shipping the commodity.

2. The false labeling preventing method in the
15 consumer distribution according to claim 1, further comprising the steps of:

using information erasable and writable labels (10) as the buying form I and shipping form O incapable of being falsified, each of the labels comprising a read-only
20 storage region (2) written in a mode in which a serial number N is incapable of being erased, and an erasable writable storage region (4) for writing the commodity information;

writing the supplier's commodity information and
25 the serial number N of the buying form I in a two-dimensional code (4) of the buying form I in a mode incapable of being falsified; and

writing at least some of the contents of the two-dimensional code (4) of the buying form I, the new commodity information, and the serial number N of the shipping form O in the two-dimensional code (4) of the shipping form O in the mode incapable of being falsified.

3. The false labeling preventing method in the commodity distribution according to claim 2, wherein the label (10) is a rewritable label and/or a label with an IC chip, with respect to which it is possible to erase and write the information, the read-only storage region (2) is a barcode or ROM written in a mode in which it is impossible to erase the serial number N, and the writable storage region (4) is an erasable two-dimensional code and/or RAM.

4. The false labeling preventing method in the commodity distribution according to claim 2, wherein the mode of the buying form I incapable of being falsified comprises commodity information and its issuer name encrypted by a secret key inherent in the supplier, and the mode of the shipping form O incapable of being falsified comprises commodity information and its issuer name encrypted by a secret key inherent in the shipper.

5. The false labeling preventing method in the commodity distribution according to claim 2, wherein the mode of the buying form I incapable of being falsified comprises commodity information and its public key encrypted by a secret key inherent in the supplier, and the

mode of the shipping form O incapable of being falsified comprises commodity information and its public key encrypted by a secret key inherent in the shipper.

5 6. The false labeling preventing method in the commodity distribution according to claim 2, wherein the mode of the buying form I incapable of being falsified comprises commodity information to which electronic signature inherent in the supplier has been attached, and the mode of the shipping form O incapable of being
10 falsified comprises commodity information to which electronic signature inherent in the shipper has been attached.

15 7. The false labeling preventing method in the commodity distribution according to claim 1 or 2, further comprising the steps of: checking falsification capability of the buying form I using a label writing apparatus (20) capable of reading, erasing, and writing the label (10); and preparing the shipping form O adapted to the buying form I only in a case where "falsification capability: NO".

20 8. The false labeling preventing method in the commodity distribution according to claim 7, further comprising the steps of:

 reading the read-only storage region (2) and the writable storage region (4) of the buying form I;

25 checking legitimacy of the supplier's public key or electronic signature, and identity of the serial numbers of the read-only storage region (2) and the writable

storage region (4); and

judging that " falsification capability: NO " only in a case when the public key or the electronic signature is legitimate and the serial numbers are the same.

5 9. The false labeling preventing method further comprising the steps of:

 writing at least some of the contents of the two-dimensional code (4) of the buying form I, new commodity information, and the serial number N of the shipping form O
10 in the writable storage region (4) of the shipping form O in a mode incapable of being falsified; and

 setting a new shipping form O to be capable of being prepared only in a range in which a total amount of the buying form I is not exceeded, and erasing the original
15 buying form I at a time of preparation of the shipping form O.

 10. A label writing apparatus with a falsification preventing function, for receiving a buying form I of commodity information from a supplier, preparing
20 a shipping form O including new commodity information based on the buying form I, and attaching the shipping form to a secondarily processed commodity to ship the commodity,

 the buying form I and the shipping form O comprising: labels (10) each comprising a read-only storage
25 region (2) in which a serial number N is written in a mode incapable of being erased, and an erasable writable storage region (4) for writing the commodity information, and the

labels being capable of erasing and writing the information,

the label writing apparatus having a function of reading, erasing, and writing the information with respect to the label (10), a check function of checking

5 falsification capability of the buying form I, and setting the shipping form O to be capable of being prepared only in a case where "falsification capability: NO", a

falsification preventing function of writing, in the two-dimensional code (4) of the shipping form O, at least some

10 of the contents of the writable storage region (4) of the buying form I, new commodity information, and the serial

number N of the shipping form O in a mode incapable of being falsified, and a forging preventing function of

setting a new shipping form O to be capable of being

15 prepared only in a range in which a total amount of the buying form I is not exceeded, and erasing the original buying form I at a time of the preparation of the shipping form O.

11. The label writing apparatus with the
20 falsification preventing function according to claim 10, wherein the label (10) is a rewritable label and/or an IC-chip-containing label capable of erasing and writing the information, the read-only storage region (2) is a bar code or a ROM in which the serial number N is written in a mode
25 incapable of being erased, and the writable storage region (4) is an erasable two-dimensional code and/or a RAM.